

REMARKS

Claims 1-3 and 5 remain pending in the present application. Reconsideration of the claims is respectfully requested in view of the following remarks.

Claim Rejections - 35 U.S.C. § 103

Claims 1 and 2 are rejected under 35 U.S.C. §103(a) as being unpatentable over **Jain** (US 6,519,168) in view of **Jang** (US 6,301,128). Claims 3 and 5 are rejected under 35 U.S.C. §103(a) as being unpatentable over **Jain** (US 6,519,168) in view of **Jang** (US 6,301,128) and **Hulsey** (US 5,568,036).

The newly cited primary reference to **Jain** does not disclose nor render obvious all the features recited in the present claimed invention. For instance, **Jain** does not disclose nor render obvious at least the claimed features for:

resonant frequency detecting means for detecting a frequency of a resonant current caused by an operation of said LC resonant circuit and means for feeding the frequency detected by said resonant frequency detecting means back to said driving means are provided; and

said driving means turns said switching means ON/OFF at a resonant frequency of said LC resonant circuit based on the frequency detected by said resonant frequency detecting means

The Office Action cited reference number 112 shown in Fig. 5 of **Jain** for the claimed resonant frequency detecting means. However, the “feedback” 112 of **Jain’s** Fig. 5 is the high frequency AC output voltage 110 of the resonant circuit 108 (column 2, lines 4-7) that is sent to a phase-shift modulation circuit 114. The feedback 112 does not “detect” any frequency of an operating LC resonant circuit. It is merely the voltage output from the resonant circuit 108 that is simply provided to the phase-shift modulation circuit 114.

The feedback 112 of **Jain** is completely different than the frequency detecting means described in the present specification. The frequency detecting means includes a current detecting transformer 5 and the frequency detecting unit 6 (*see, e.g.*, top of page 13 of the present specification). The resonant current detecting transformer 5 detects a current flowing through a winding on the primary side of the transformer 1 as a voltage value and the frequency detecting unit 6 detects a frequency of the current by calculating this frequency from a change in voltage value this detected (*see, e.g.*, page 10, lines 8-14).

Nothing in **Jain** discloses the present claimed frequency detecting means. As such, **Jain** also does not disclose nor render obvious the claimed driving means that “turns said switching means ON/OFF at a resonant frequency of said LC resonant circuit based on the frequency detected by said resonant frequency detecting means.”

Nothing in the further references to **Jang** or **Hulsey** remedies the deficiencies in the primary reference to **Jain**. For at least these reasons, the present claimed invention patentably distinguishes over the prior art.

In view of the aforementioned amendments and accompanying remarks, Applicants submit that the claims, as herein amended, are in condition for allowance. Applicants request such action at an early date.

If the Examiner believes that this application is not now in condition for allowance, the Examiner is requested to contact Applicants' undersigned attorney to arrange for an interview to expedite the disposition of this case.

If this paper is not timely filed, Applicants respectfully petition for an appropriate extension of time. The fees for such an extension or any other fees that may be due with respect to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,

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